

## Technical Information

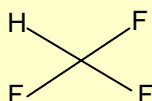
### Trifluoromethane (HFC-23)

#### Refrigerant and Electronic Gas Intermediate

HFC-23 is a highly fluorinated methane with no ozone-depletion potential. With a high critical temperature and a very high latent heat of vaporization, HFC-23 can be used as a refrigerant gas for very low temperature applications. Electronic grade HFC-23 is often used as a component in various gas recipes for plasma etching in semiconductor manufacturing.

Chemical Name (trifluoromethane)

CAS Reg. Number: [75-46-7]



#### Typical Properties

Appearance	Pressurized Gas
Molecular Weight	70
Liquid Density @ 20 °C g/cm <sup>3</sup>	0.676
Critical Temperature	21°C
Moisture, PPM	10 max.

#### Vapor Pressure

0 °C	412.6 psia
20 °C	606.6 psia

This product is packaged in various sizes of carbon steel and stainless pressurized cylinders for different applications

The physical, thermodynamic, heat-transfer and cleaning properties of hydrofluorocarbons make them ideal for a wide range of applications including refrigeration and electronic grade gas. HFC-23 is a colorless gas at ambient conditions and is suitable for use as a refrigerant for high-pressure applications requiring very low temperatures. High-purity grades of HFC-23 are used as an etchant in semiconductor manufacturing. HFC-23 is available in various purity specifications and can be packaged per requirements.

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials.

This product is approved by U.S., Australia, Philippines, EU and Japanese regulatory agencies for its production and use as an industrial intermediate. For additional handling and toxicological information, please consult the company's Material Safety Data Sheet or the regulatory department of Great Lake Chemical Corporation

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